

**REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM**

Laboratory Name: Connecticut Testing Lab's, Inc. Client: Leggette, Brashears & Graham, Inc.
 Project Location: _____ Project Number: WENDEL 1
 Laboratory Sample Id(s): 2759-2779, 2781-2790 Sampling Date(s): 2/21/12
 List RCP Method(s) Used: CT ETPH CTL Lab #: 0212259

Reactivation ☐ Date Reactivated: _____

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u>VPH and EPH Methods only:</u> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (<6° C°)? <input checked="" type="checkbox"/> Iced <input type="checkbox"/> No Ice	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
4	Was all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.



Authorized Signature: _____
 Printed Name: Stephen J. Franco

Position: Lab Director PH-0547
 Date: 2/29/12

Name of Laboratory: Connecticut Testing Laboratories, Inc.

CASE NARRATIVE

Connecticut Testing Laboratories, Inc.

Prepared for:

Leggette, Brashears & Graham
6 Executive Drive Suite 109
Farmington, CT 06032

Order#: 0212259

Project: WENDEL 1

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
B-100 (0-1)	2759	SOIL	02/21/2012	02/22/2012
B-100 (2-3)	2760	SOIL	02/21/2012	02/22/2012
B-101 (0-1)	2761	SOIL	02/21/2012	02/22/2012
B-102 (0-1)	2762	SOIL	02/21/2012	02/22/2012
B-102 (2-3)	2763	SOIL	02/21/2012	02/22/2012
B-103 (0-1)	2764	SOIL	02/21/2012	02/22/2012
B-103 (2-3)	2765	SOIL	02/21/2012	02/22/2012
B-104 (0-1)	2766	SOIL	02/21/2012	02/22/2012
B-104 (2-3)	2767	SOIL	02/21/2012	02/22/2012
B-105 (0-1)	2768	SOIL	02/21/2012	02/22/2012
B-105 (2-3)	2769	SOIL	02/21/2012	02/22/2012
B-106 (0-1)	2770	SOIL	02/21/2012	02/22/2012
B-106 (2-3)	2771	SOIL	02/21/2012	02/22/2012
B-107 (0-1)	2772	SOIL	02/21/2012	02/22/2012
B-107 (2-3)	2773	SOIL	02/21/2012	02/22/2012
B-108 (0-1)	2774	SOIL	02/21/2012	02/22/2012
B-108 (2-3)	2775	SOIL	02/21/2012	02/22/2012
B-109 (0-1)	2776	SOIL	02/21/2012	02/22/2012
B-109 (2-2.5)	2777	SOIL	02/21/2012	02/22/2012
B-110 (0-1)	2778	SOIL	02/21/2012	02/22/2012
B-110 (2-3)	2779	SOIL	02/21/2012	02/22/2012
B-110 (5-6)	2780	SOIL	02/21/2012	02/22/2012
B-111 (0-1)	2781	SOIL	02/21/2012	02/22/2012
B-111 (2-3)	2782	SOIL	02/21/2012	02/22/2012
B-112 (0-1)	2783	SOIL	02/21/2012	02/22/2012
B-112 (2-3)	2784	SOIL	02/21/2012	02/22/2012
B-113 (0-0.5)	2785	SOIL	02/21/2012	02/22/2012
B-114 (0-0.5)	2786	SOIL	02/21/2012	02/22/2012

CASE NARRATIVE

Connecticut Testing Laboratories, Inc.

Prepared for:

Leggette, Brashears & Graham
6 Executive Drive Suite 109
Farmington, CT 06032

Order#: 0212259

Project: WENDEL 1

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

B-115 (0-0.5)	2787	SOIL	02/21/2012	02/22/2012
B-116 (0-1)	2788	SOIL	02/21/2012	02/22/2012
B-117 (0-1)	2789	SOIL	02/21/2012	02/22/2012
B-100 (0-1) DUP	2790	SOIL	02/21/2012	02/22/2012

No analytical was requested for CTL sample no. 2780.

The total solids results for CTL sample nos. 2788 & 2789 were 59.3% and 50.6% respectively, and as a result the reporting levels have been raised accordingly.

The ETPH discrimination check meets RCP criteria.

ETPH anomalies are noted in the RCP DQA summary table attached to this report.

The enclosed results of analyses are representative of the samples as received by the laboratory. Connecticut Testing Laboratories, Inc. makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: _____

Connecticut Testing Laboratories, Inc.

Date: _____

2/29/12

Date Samples Received: 02/22/2012

Client Name: Leggette, Brashears & Graham	CTL Lab No.: 0212259
Report Date: 02/29/2012	PO No: WENDEL 1
Method #: CT ETPH/3545	Analyst: LP

RESULTS OF ANALYSIS

CTETPH-RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	2759	2760	2761	2762
Field ID:	B-100 (0-1)	B-100 (2-3)	B-101 (0-1)	B-102 (0-1)
Date Analyzed:	02/28/2012	02/28/2012	02/28/2012	02/28/2012
Date Extracted:	02/27/2012	02/27/2012	02/27/2012	02/27/2012

Parameters	Units	RL				
CT ETPH	mg/kg	50	ND	ND	ND	ND
1-Chloro-Octadecene	%	---	89	96	89	94

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Date Samples Received: 02/22/2012

Client Name: Leggette, Brashears & Graham
Report Date: 02/29/2012
Method #: CT ETPH/3545

CTL Lab No.: 0212259
PO No: WENDEL 1
Analyst: LP

RESULTS OF ANALYSIS

CTETPH-RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	2763	2764	2765	2766
Field ID:	B-102 (2-3)	B-103 (0-1)	B-103 (2-3)	B-104 (0-1)
Date Analyzed:	02/28/2012	02/28/2012	02/29/2012	02/29/2012
Date Extracted:	02/27/2012	02/27/2012	02/27/2012	02/27/2012

Parameters	Units	RL				
CT ETPH	mg/kg	50	ND	17,250	1,436	ND
1-Chloro-Octadecene	%	---	99	305	118	108

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Date Samples Received: 02/22/2012

Client Name: Leggette, Brashears & Graham
Report Date: 02/29/2012
Method #: CT ETPH/3545

CTL Lab No.: 0212259
PO No: WENDEL 1
Analyst: LP

RESULTS OF ANALYSIS

CTETPH-RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	2767	2768	2769	2770
Field ID:	B-104 (2-3)	B-105 (0-1)	B-105 (2-3)	B-106 (0-1)
Date Analyzed:	02/29/2012	02/28/2012	02/28/2012	02/28/2012
Date Extracted:	02/27/2012	02/27/2012	02/27/2012	02/27/2012

Parameters	Units	RL				
CT ETPH	mg/kg	50	ND	ND	ND	ND
1-Chloro-Octadecene	%	---	99	94	95	89

RL=Reporting Level ND = None Detected

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165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Date Samples Received: 02/22/2012

Client Name: Leggette, Brashears & Graham	CTL Lab No.: 0212259
Report Date: 02/29/2012	PO No: WENDEL 1
Method #: CT ETPH/3545	Analyst: LP

RESULTS OF ANALYSIS

CTETPH-RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	2771	2772	2773	2774
Field ID:	B-106 (2-3)	B-107 (0-1)	B-107 (2-3)	B-108 (0-1)
Date Analyzed:	02/28/2012	02/28/2012	02/28/2012	02/28/2012
Date Extracted:	02/27/2012	02/27/2012	02/27/2012	02/27/2012

Parameters	Units	RL				
CT ETPH	mg/kg	50	ND	ND	ND	268
1-Chloro-Octadecene	%	---	98	96	86	103

RL=Reporting Level ND = None Detected

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(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Client Name: Leggette, Brashears & Graham	CTL Lab No.: 0212259
Report Date: 02/29/2012	PO No: WENDEL 1
Method #: CT ETPH/3545	Analyst: LP

RESULTS OF ANALYSIS

CTETPH-RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	2775	2776	2777	2778
Field ID:	B-108 (2-3)	B-109 (0-1)	B-109 (2-2.5)	B-110 (0-1)
Date Analyzed:	02/28/2012	02/28/2012	02/28/2012	02/28/2012
Date Extracted:	02/27/2012	02/27/2012	02/27/2012	02/27/2012

Parameters	Units	RL				
CT ETPH	mg/kg	50	ND	ND	ND	ND
1-Chloro-Octadecene	%	---	91	92	89	93

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
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 Certification CT-PH0547 / MA-CT035

Date Samples Received: 02/22/2012

Client Name: Leggette, Brashears & Graham	CTL Lab No.: 0212259
Report Date: 02/29/2012	PO No: WENDEL 1
Method #: CT ETPH/3545	Analyst: LP

RESULTS OF ANALYSIS

CTETPH-RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	2779	2781	2782	2783
Field ID:	B-110 (2-3)	B-111 (0-1)	B-111 (2-3)	B-112 (0-1)
Date Analyzed:	02/28/2012	02/28/2012	02/28/2012	02/28/2012
Date Extracted:	02/27/2012	02/27/2012	02/27/2012	02/27/2012

Parameters	Units	RL				
CT ETPH	mg/kg	50	18,060	ND	14,980	ND
1-Chloro-Octadecene	%	---	319	93	510	95

RL=Reporting Level ND = None Detected

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Certification CT-PH0547 / MA-CT035

Client Name: Leggette, Brashears & Graham	CTL Lab No.: 0212259
Report Date: 02/29/2012	PO No: WENDEL 1
Method #: CT ETPH/3545	Analyst: LP

RESULTS OF ANALYSIS

CTETPH-RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	2784	2785	2786	2787
Field ID:	B-112 (2-3)	B-113 (0-0.5)	B-114 (0-0.5)	B-115 (0-0.5)
Date Analyzed:	02/28/2012	02/29/2012	02/29/2012	02/28/2012
Date Extracted:	02/27/2012	02/27/2012	02/29/2012	02/27/2012

Parameters	Units	RL				
CT ETPH	mg/kg	50	ND	239	ND	ND
1-Chloro-Octadecene	%	---	96	106	69	91

RL=Reporting Level ND = None Detected

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Certification CT-PH0547 / MA-CT035

Date Samples Received: 02/22/2012

Client Name: Leggette, Brashears & Graham
Report Date: 02/29/2012
Method #: CT ETPH/3545

CTL Lab No.: 0212259
PO No: WENDEL 1
Analyst: LP

RESULTS OF ANALYSIS

CTETPH-RCP

Matrix Type: SOIL
CTL Sample No.: 2790
Field ID: B-100 (0-1) DUP
Date Analyzed: 02/28/2012
Date Extracted: 02/27/2012

Parameters	Units	RL				
CT ETPH	mg/kg	50	ND			
1-Chloro-Octadecene	%	---	93			

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Date Samples Received: 02/22/2012

Client Name: Leggette, Brashears & Graham
Report Date: 02/29/2012
Method #: CT ETPH/3545

CTL Lab No.: 0212259
PO No: WENDEL 1
Analyst: LP

RESULTS OF ANALYSIS

CTETPH-RCP

Matrix Type:	SOIL	SOIL
CTL Sample No.:	2788	2789
Field ID:	B-116 (0-1)	B-117 (0-1)
Date Analyzed:	02/28/2012	02/28/2012
Date Extracted:	02/27/2012	02/27/2012

Parameters	Units	RL				
CT ETPH	mg/kg	100	514	992		
1-Chloro-Octadecene	%	---	104	99		

RL=Reporting Level ND = None Detected

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165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

CTETPH-RCP

Order#: 0212259

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/kg	0032142-02			ND		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/kg	0032142-03		560	568	101.4%	
MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/kg	0000027-59	ND	280	360	128.6%	
MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/kg	0000027-59	ND	280	330	117.9%	8.7%

Type of QC	Surrogates	% Recovered	QC Limits (%)	
BLANK	1-Chloro-Octadecene	91%	50	150
Type of QC	Surrogates	% Recovered	QC Limits (%)	
CONTROL	1-Chloro-Octadecene	80%	50	150
Type of QC	Surrogates	% Recovered	QC Limits (%)	
MS	1-Chloro-Octadecene	98%	50	150
Type of QC	Surrogates	% Recovered	QC Limits (%)	
MSD	1-Chloro-Octadecene	91%	50	150

Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

CTETPH-RCP

Order#: 0212259

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/kg	0032143-02			ND		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/kg	0032143-03		560	597	106.6%	
MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/kg	0000027-76	0	280	351	125.4%	
MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/kg	0000027-76	0	280	344	122.9%	2.0%

Type of QC	Surrogates	% Recovered	QC Limits (%)	
BLANK	1-Chloro-Octadecene	86%	50	150
Type of QC	Surrogates	% Recovered	QC Limits (%)	
CONTROL	1-Chloro-Octadecene	86%	50	150
Type of QC	Surrogates	% Recovered	QC Limits (%)	
MS	1-Chloro-Octadecene	99%	50	150
Type of QC	Surrogates	% Recovered	QC Limits (%)	
MSD	1-Chloro-Octadecene	96%	50	150

CONNECTICUT TESTING LAB'S, INC.

RCP DQA SUMMARY TABLE

CT ETPH

CTL Lab # 0212259
Client: LBG, Inc
Project: Wendel 1

CTL		QC		Calibr.		Criteria		Notes
Sample #	Analyte	Type	Date	Type	Date	Criteria	Criteria	
2759 - 2775	CT ETPH	ICAL	2/10/12	ICAL	2/10/12	<30% RSD		No Anomalies
2759 - 2775	CT ETPH	ICV	2/10/12	ICV	2/10/12	See Method		No Anomalies
2759 - 2775	CT ETPH	DChk	2/10/12	DChk	2/10/12	+/- 20% D		Meets Method Requirements

BATCH 1		QC		Spike		RPD	
Type	Result	Value	%D	%R	Criteria	Bias	Bias
2759 - 2775	CCAL				+/-30%D		No Anomalies
2759 - 2775	DChk				Pass		Meets Method Requirements
2759 - 2775	MB	ND			Targets <RL		No Anomalies
2759 - 2775	LCS				60-120%R		No Anomalies
2759 - 2763, 2765 - 2775	SR				50-150%R		No Anomalies
2764	SR	305	100	305	50-150%R	H	Matrix Interference
2759	MS		280		50-150%R		No Anomalies
2759	MSD		280		50-150%R RPD<30		No Anomalies

L=Low H= High NDR=Non Directional
ICAL = Initial Calibration
ICV= Initial Calibration Verification
DChk= Discrimination Check
CCAL=Continuing Calibration

MB= Method Blank
LCS= Laboratory Control Sample
SR= Surrogate Recovery
MS= Matrix Spike
MSD= Matrix Spike Duplicate

RSD= Relative Standard Deviation
%D=% Drift
%R= % Recovery
RPD= Relative Percent Difference

CONNECTICUT TESTING LAB'S, INC.

RCP DQA SUMMARY TABLE

CT ETPH

CTL Lab # 0212259
Client: LBG, Inc
Project: Wendel 1

CTL		QC		Calibr.		Criteria		Notes	
Sample #	Analyte	Type	Date	Type	Date	Criteria	Criteria	Notes	Notes
2776 - 2779 & 2781-2790	CT ETPH	ICAL	2/10/12	ICAL	2/10/12	<30% RSD	<30% RSD	No Anomalies	No Anomalies
2776 - 2779 & 2781-2790	CT ETPH	ICV	2/10/12	ICV	2/10/12	See Method	See Method	No Anomalies	No Anomalies
2776 - 2779 & 2781-2790	CT ETPH	DChk	2/10/12	DChk	2/10/12	+/- 20% D	+/- 20% D	Meets Method Requirements	Meets Method Requirements

BATCH 2		QC		Spike		RPD		Notes	
Sample #	Analyte	Type	Result	Value	%D	%R	Criteria	Bias	RPD
2776 - 2779 & 2781-2790	CT ETPH	CCAL					+/-30%D		No Anomalies
2776 - 2779 & 2781-2790	CT ETPH	DChk					Pass		Meets Method Requirements
2776 - 2779 & 2781-2790	CT ETPH	MB	ND				Targets <RL		No Anomalies
2776 - 2779 & 2781-2790	CT ETPH	LCS					60-120%R		No Anomalies
2776 - 2778, 2781, 2783 - 2790	CT ETPH	SR					50-150%R		No Anomalies
2779	CT ETPH	SR	319	100		319	50-150%R	H	Matrix Interference
2782	CT ETPH	SR	510	100		510	50-150%R	H	Matrix Interference
2776	CT ETPH	MS		280			50-150%R		No Anomalies
2776	CT ETPH	MSD		280			50-150%R RPD<30		No Anomalies

L=Low H= High NDR=Non Directional
ICAL = Initial Calibration
ICV= Initial Calibration Verification
DChk= Discrimination Check
CCAL=Continuing Calibration

MB= Method Blank
LCS= Laboratory Control Sample
SR= Surrogate Recovery
MS= Matrix Spike
MSD= Matrix Spike Duplicate

RSD= Relative Standard Deviation
%D=% Drift
%R= % Recovery
RPD= Relative Percent Difference